IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
         Seung Chan BANG, *et al.*)
)
)   Before the Examiner:

Serial No.:   New Application)
)

Filed: January 24, 2001)   Group Art Unit:
)

For: ORTHOGONAL COMPLEX SPREADING)
       METHOD FOR MULTICHANNEL AND)
       APPARATUS THEREOF)
)
)

* *

PRELIMINARY AMENDMENT

To: Assistant Commissioner for Patents   January 24, 2001
       Washington, D.C. 20231

Sir:

Prior to the examination based on the merits, please amend the captioned application as follows:

In the Claims:

Please cancel claims 1-40.

Please add the following claims.

A 1

—1 41.   An orthogonal complex spreading method for multiple channels, comprising the steps of:

complex-summing $W_{M,n1}X_{n1}$, which is obtained by multiplying an orthogonal code sequence $W_{M,n1}$ by first data group X_{n1} of a n-th block, and $W_{M,n2}X_{n2}$, which is obtained by multiplying an orthogonal code sequence $W_{M,n2}$ by second data group X_{n2} of a n-th block, M and n being positive integers;

complex-multiplying the complex summed form of $W_{M,n1}X_{n1}+jW_{M,n2}X_{n2}$, by a complex form of $W_{M,n3}+jW_{M,n4}$ and outputting $(W_{M,n1}X_{n1} + jW_{M,n2}X_{n2})\times(W_{M,n3} + jW_{M,n4})$ as an output signal; and